

AP STAT: CHAPTER 4- QUANTITATIVE DATA

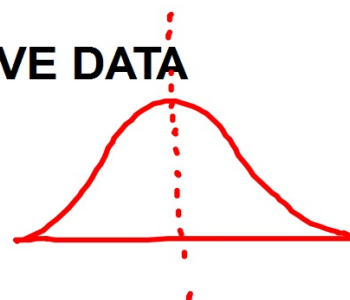
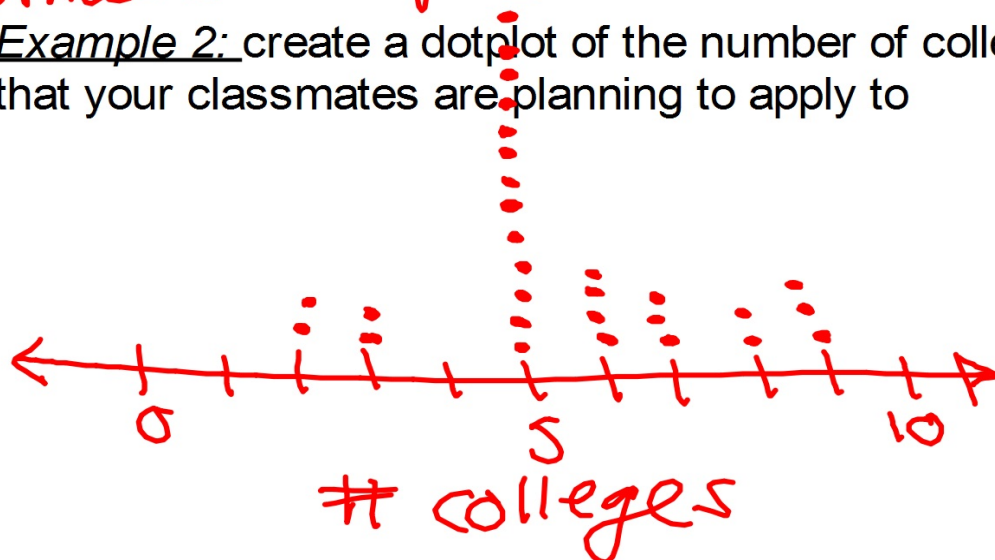
Quantitative Distributions:

1. Dotplots

Example 1: number of siblings of your classmates

* small samples

Example 2: create a dotplot of the number of colleges that your classmates are planning to apply to



1. Stemplot (aka Stem and Leaf Plot)

Example 2: Heights of classmates

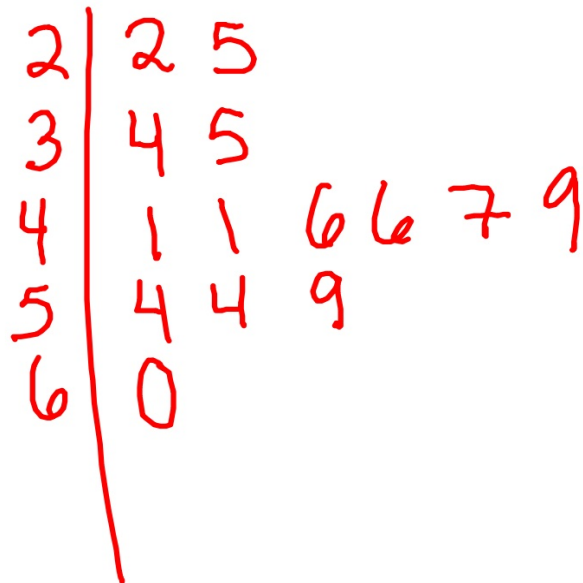
60" = 5 ft.

Example 3: Babe Ruth's homerun totals each season for the Yankees:

*small sets

54, 59, 35, 41, 46, 25, 47, 60, 54, 46, 49, 41, 34, 22

Create a stemplot



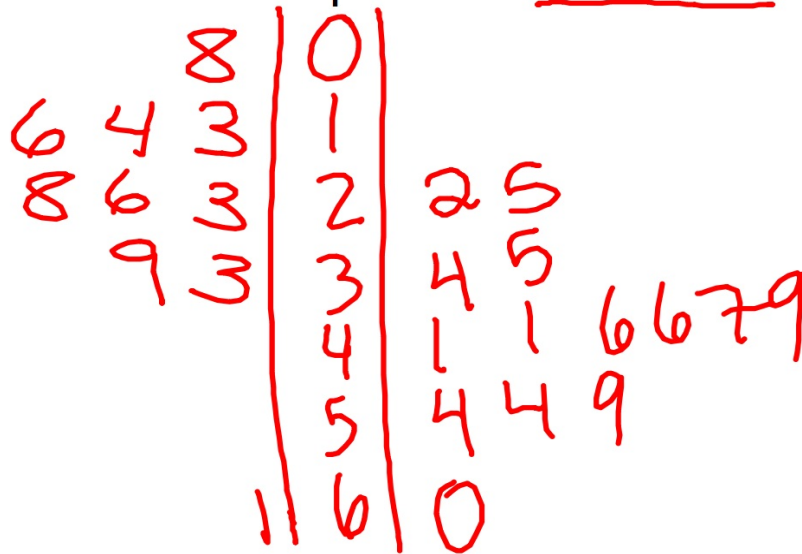
Example 3: Babe Ruth's homerun totals each season for the Yankees:

54, 59, 35, 41, 46, 25, 47, 60, 54, 46, 49, 41, 34, 22

Example 4: Roger Maris' homerun totals for the Yankees:

~~8, 13, 23, 33, 28, 16, 14, 39, 26, 61~~

Create a ~~Back to Back~~ ^{Roger Maris} stemplot with Babe Ruth's



Example 5: Age guesses

[illegible]

- * clustered

Splitting stems

[illegible]

Age guesses

[illegible]

2								
2								
2								
2								
2	4							
2	4							
2	6	6						
2	7	7	7	7				
2	8	8	8	8	8	8	8	
2	9	9	9	9	9	9		
3	0	0	0	0				
3								
3	2	2	2	2				
3								
3	4	4						
3								
3								
3								

DESCRIBING DISTRIBUTIONS: Shape, Center, Spread

SHAPE

MODE: UNIMODAL

BIMODAL

SHAPES: UNIFORM

SYMMETRIC

LEFT SKEWED

RIGHT SKEWED

OTHER: OUTLIERS

GAPS

CLUSTERED

GRANULARITY

CENTER:

MEDIAN:

MEAN (average):

SPREAD:

RANGE: